AMENDMENTS TO THE CLAIMS

This listing replaces all prior listings and versions of claims in the application.

- (Currently Amended) A method for quantifying small particle LDL in a test sample, comprising:
- (i) removing lipoproteins other than small particle LDL and HDL from said test sample by adding a separation agent comprising a polyanion, a divalent cation, and a monovalent cation, wherein the monovalent cation is at a final concentration of less than 50 mmol/L; and then
- (ii) <u>eliminating HDL by treating the test sample with cholesterol esterase and cholesterol</u> oxidase in the presence of a surface active agent that is polyalkylene oxide; and
- $\underbrace{ (iii) } \quad \text{ quantifying small particle LDL in said the test sample from step } \underbrace{ (ii) } \text{ by measuring}$ the amount of LDL $_{\pi}$

wherein step (i) comprises adding a separation agent comprising a polyanion and a divalent eation to said test sample.

2.-3. (Cancelled)

- (Previously Presented) A method according to claim 1, wherein the polyanion is selected from the group consisting of heparin, phosphotungstic acid and dextran sulfate.
- 5. (Previously Presented) A method according to claim 1, wherein the divalent cation is selected from the group consisting of Mn^{2+} , Mg^{2+} and Ca^{2+} .
- 6. (Currently Amended) A method according to claim [[3]] \underline{I} , wherein the monovalent cation is selected from the group consisting of Na $^{+}$, K $^{+}$ and Li $^{+}$.
- (Previously Presented) A method according to claim 4, wherein, when the polyanion is added to the test sample, the final concentration of the polyanion is 10-250 U/mL for heparin, 0.02-1.25% for dextran sulfate and 0.02-1.25% for phosphotungstic acid.

(Previously Presented) A method according to claim 5, wherein, when the divalent cation is added to the test sample, the final concentration of the divalent cation is 2.5-35 mmol/L for Mn²⁺, 2.5-125 mmol/L for Mg²⁺ and 1-75 mmol/L for Ca²⁺.

9. (Cancelled)

- (Currently Amended) A method for quantifying small particle LDL in a test sample, comprising:
- removing lipoproteins other than small particle LDL and HDL from said test sample by adding a separation agent consisting of PEG; and then
- (ii) eliminating HDL by treating the test sample from step (ii) with cholesterol esterase and cholesterol oxidase in the presence of a surface active agent, wherein the surface active agent is polvalkylene oxide; and
- (iii) quantifying small particle LDL in said the test sample from step (+) (iii) by measuring the amount of LDL₂

wherein step (i) comprises adding PEG to said test sample.

- (Previously Presented) A method according to claim 10 wherein the final concentration of PEG is 2-5% by weight when PEG is added to the test sample.
- 12. (Previously Presented) A method according to claim 1, wherein measuring the amount of LDL is carried out by using a reagent which is used for selectively measuring cholesterol in LDL and which does not require fractionation.
- 13. (Previously Presented) A method according to claim 1, wherein measuring the amount of LDL is carried out by using a reagent which is used for selectively measuring triglycerides in LDL and which does not require fractionation.
- (Previously Presented) A method according to claim 1, wherein measuring the amount of LDL is carried out by using an anti-human apoprotein B antibody.

- 15. (Currently Amended) A method for separating small particle LDL from a test sample that contains LDLs, comprising precipitating LDLs other than small particle LDL by adding a separation agent comprising a polyanion and a divalent eation a monovalent cation at a final concentration of less than 50 mmol/L to the test sample.
- (Currently Amended) A method according to claim 15_wherein said separation agent further comprises a monovalent eation a polyanion and a divalent cation.
- (Currently Amended) A method according to claim [[15]] 16, wherein the polyanion is selected from the group consisting of heparin, phosphotungstic acid and dextran sulfate.
- (Currently Amended) A method according to claim [[15]] 16, wherein the divalent cation is selected from the group consisting of Mn²⁺, Mg²⁺ and Ca²⁺.
- (Previously Presented) A method according to claim 15, wherein the monovalent cation is selected from the group consisting of Na⁺, K⁺ and Li⁺.
- (Previously Presented) A method according to claim 17, wherein, when the
 polyanion is added to the test sample, the final concentration of the polyanion is 10-250 U/mL for
 heparin, 0.02-1.25% for dextran sulfate and 0.02-1.25% for phosphotungstic acid.
- 21. (Previously Presented) A method according to claim 18, wherein, when the divalent cation is added to the test sample, the final concentration of the divalent cation is 2.5-35 mmol/L for Mn^{2*} , 2.5-125 mmol/L for Mg^{2*} and 1-75 mmol/L for Ca^{2*} .

22. (Cancelled)

- 23. (Previously Presented) A method for separating a small particle low density lipoprotein from a test sample that contains LDLs, comprising precipitating LDLs other than small particle LDL by adding PEG to the test sample.
- (Previously Presented) A method according to claim 23, wherein the final concentration of PEG is 2-5% by weight when PEG is added to the test sample.

25.-36. (Cancelled)

- 37. (New) A method according to claim 1, wherein the surface active agent is selected from the group consisting of polyoxyethylene lauryl ether, polyoxyethylene octylphenyl ether and polyoxyethylene nonylpheny ether.
- 38. (New) A method according to claim 10, wherein the surface active agent is selected from the group consisting of polyoxyethylene lauryl ether, polyoxyethylene octylphenyl ether and polyoxyethylene nonylpheny ether.